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## ACRONYMS AND ABBREVIATIONS

AFEP	anadromous fish evaluation program
AWS	auxiliary water system
BACI	before-and-after control impact
BGS	behavioral guidance structure
BIA	Bureau of Indian Affairs
BKD	bacterial kidney disease
BLM	Bureau of Land Management
BOR	Bureau of Reclamation
BPA	Bonneville Power Administration
CBFWA	Columbia Basin Fish and Wildlife Authority
CEQ	White House Council on Environmental Quality
CFD	computational fluid dynamics
CFR	Code of Federal Regulations
cfs	cubic feet per second
cm	centimeter
Corps	U.S. Army Corps of Engineers
CR	Columbia River
CREP	Conservation Reserve Enhancement Program
CRI	Cumulative Risk Initiative
CRISP	Columbia River Salmon Passage (model)
CRITFC	Columbia River Inter-Tribal Fish Commission
CROHMS	Columbia River Operational Hydromet Management System
CTWSRO	Confederated Tribes of the Warm Springs Reservation of Oregon
CWA	Clean Water Act
CWT	coded-wire tag
D	differential delayed mortality
DGAS	dissolved gas abatement study
EDT	ecosystem diagnosis and treatment
EFH	essential fish habitat
EIS	environmental impact statement
EM	delayed mortality of nontransported fish
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
ESBS	extended-length submersible bar screen
ESP	extended streamflow prediction (model)
ESU	evolutionarily significant unit
FCRPS	Federal Columbia River Power System
FDA	Food and Drug Administration
FELCC	firm energy load carrying capacity
FERC	Federal Energy Regulatory Commission
ft/s	feet per second

FGE	fish guidance efficiency
FLUSH	Fish Leaving Under Several Hypotheses (model)
FPE	fish passage efficiency
FPOM	Fish Passage Operations and Maintenance Coordination Team
GBT	gas bubble trauma
GIS	geographic information system
HCP	Habitat Conservation Plan
HGMP	hatchery and genetic management plan
I-5	Interstate Highway 5
ISAB	Independent Scientific Advisory Board
ISG	Independent Scientific Group
IWUA	Idaho Water Users Association
JFT	Juvenile Fish Transportation Program
kaf	thousand acre-feet
kcfs	thousand cubic feet per second
km	kilometer
kV	kilovolt
LCR	Lower Columbia River
LCREP	Lower Columbia River Estuary Program
m	meter
$\text{m}^3/\text{s}$	cubic meters per second
mm	millimeter
Maf	million acre-feet
MCR	Middle Columbia River
MDEQ	Montana Department of Environmental Quality
mg/l	milligrams per liter
MGR	minimum gap runners
MOP	minimum operating pool
MOU	memorandum of understanding
msl	mean sea level
MW	megawatt
NEPA	National Environmental Policy Act
NFH	National Fish Hatcheries
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NRC	National Research Council
NWFSC	Northwest Fisheries Science Center
NWPPC	Northwest Power Planning Council
O&M	operations and maintenance
ODFW	Oregon Department of Fish and Wildlife
OWRD	Oregon Water Resources Department
PATH	Plan for Analyzing and Testing Hypotheses
PDO	Pacific Decadal Oscillation

PFMC	Pacific Fishery Management Council
PIT	passive integrated transponder
PNCA	Pacific Northwest Coordination Agreement
ppm	parts per million
PSC	Pacific Salmon Commission
PUD	Public Utility District
QA	quality assurance
QAR	quantitative analysis report
QC	quality control
Rkm	river kilometer
RM	river mile
RPA	Reasonable and Prudent Alternative
R/S	recruits per spawner
RT	radio-tracking
RSW	removable spillway weir
SAR	smolt-to-adult return rate
SIMPAS	simulated passage (model)
SOI	Southern Oscillation Index
SR	Snake River
STS	submersible traveling screen
TDG	total dissolved gas
TMDL	total maximum daily load
UCR	Upper Columbia River
UCUT	Upper Columbia United Tribes
USDA	U.S. Department of Agriculture
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UWR	Upper Willamette River
VARQ	variable (VAR) outflow (Q)
VBS	vertical barrier screen
VSP	viable salmon population
WDF	Washington Department of Fisheries
WDFW	Washington Department of Fish and Wildlife
WRI	Willamette Restoration Initiative

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